

10628609\_CLS.txt  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10628609 on December 14, 2004

7/29/03

Original Classifications

4 320/145  
4 320/160  
3 320/148  
3 320/152  
3 320/156  
2 320/110  
2 320/125  
2 320/133  
2 320/139  
2 320/159

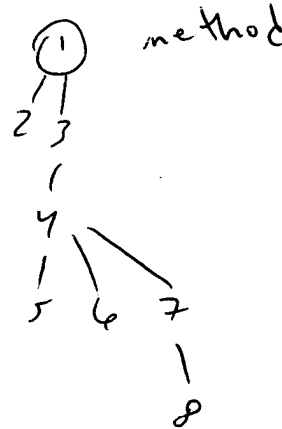
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Cross-Reference Classifications

7 320/160  
6 320/DIG 13  
5 320/161  
4 320/152  
4 320/155  
4 320/DIG 21  
3 320/139  
3 320/150  
3 320/158  
3 320/DIG 12  
3 320/DIG 19  
2 320/106  
2 320/132  
2 320/159  
2 320/162  
2 320/DIG 10  
2 324/433  
2 340/636.1  
2 340/636.15



Combined Classifications

11 320/160  
7 320/152  
6 320/161  
6 320/DIG 13  
5 320/139  
5 320/145  
5 320/155  
4 320/148  
4 320/156  
4 320/158  
4 320/159  
4 320/DIG 21  
3 320/106  
3 320/125  
3 320/133  
3 320/150  
3 320/DIG 12  
3 320/DIG 19  
2 320/107  
2 320/109  
2 320/110  
2 320/132  
2 320/134  
2 320/136  
2 320/162

depending on  
pg 4, line 3

09/738,090  
12/15/2000

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2 320/DIG 10  
2 324/426  
2 324/433  
2 340/636.1  
2 340/636.15  
2 455/573

Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10628609 on December 14, 2004

- 11 320/160 (4 OR, 7 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/137 BATTERY OR CELL CHARGING  
320/160 .Multi-rate charging (e.g., plural charge rates  
before a maintenance charge, etc.)
- 7 320/152 (3 OR, 4 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/137 BATTERY OR CELL CHARGING  
320/150 .With thermal condition detection  
320/152 ..Detection of current or voltage amplitude
- 6 320/161 (1 OR, 5 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/137 BATTERY OR CELL CHARGING  
320/161 .With detection of current or voltage  
differential (e.g., slope, etc.)
- 6 320/DIG 13 (0 OR, 6 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/DIG 13 FAULT DETECTION
- 5 320/139 (2 OR, 3 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/137 BATTERY OR CELL CHARGING  
320/139 .Pulsed
- 5 320/145 (4 OR, 1 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/137 BATTERY OR CELL CHARGING  
320/139 .Pulsed  
320/141 ..Pulse modulation  
320/145 ...Pulse-width modulation
- 5 320/155 (1 OR, 4 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/137 BATTERY OR CELL CHARGING  
320/155 .Time control
- 4 320/148 (3 OR, 1 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/137 BATTERY OR CELL CHARGING  
320/148 .With peak detection of current or voltage  
(e.g., delta-V or delta-I utilized, etc.)
- 4 320/156 (3 OR, 1 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/137 BATTERY OR CELL CHARGING  
320/155 .Time control  
320/156 ..Detection of current or voltage differential

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(e.g., slope, etc.)

- 4 320/158 (1 OR, 3 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/137 BATTERY OR CELL CHARGING  
320/155 .Time control  
320/157 ..Detection of current or voltage amplitude  
320/158 ...Having solid-state control device
- 4 320/159 (2 OR, 2 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/137 BATTERY OR CELL CHARGING  
320/155 .Time control  
320/157 ..Detection of current or voltage amplitude  
320/158 ...Having solid-state control device  
320/159 ....Detection of current and voltage amplitude
- 4 320/DIG 21 (0 OR, 4 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/DIG 18 INDICATOR OR DISPLAY  
320/DIG 21 .State of charge of battery
- 3 320/106 (1 OR, 2 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/106 MEANS TO IDENTIFY CELL OR BATTERY TYPE
- 3 320/125 (2 OR, 1 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/125 DIVERSE CHARGING OR DISCHARGING RATES FOR  
PLURAL BATTERIES
- 3 320/133 (2 OR, 1 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/127 BATTERY OR CELL DISCHARGING  
320/128 .With charging  
320/130 ..Cycling (e.g., discharge/charge cycle, etc.)  
320/133 ...Time control
- 3 320/150 (0 OR, 3 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/137 BATTERY OR CELL CHARGING  
320/150 .With thermal condition detection
- 3 320/DIG 12 (0 OR, 3 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/DIG 12 PRECHARGING ANALYSIS (E.G., DETERMINING  
PRESENCE OF BATTERY, ETC.)
- 3 320/DIG 19 (0 OR, 3 XR)  
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
OR DISCHARGING  
320/DIG 18 INDICATOR OR DISPLAY  
320/DIG 19 .Charger status (e.g., voltmeter, etc.)

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- 2 320/107 (1 OR, 1 XR)  
     Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
                     OR DISCHARGING  
     320/107 CELL OR BATTERY CHARGER STRUCTURE
- 2 320/109 (1 OR, 1 XR)  
     Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
                     OR DISCHARGING  
     320/107 CELL OR BATTERY CHARGER STRUCTURE  
     320/109 .Charging station for electrically powered  
                     vehicle
- 2 320/110 (2 OR, 0 XR)  
     Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
                     OR DISCHARGING  
     320/107 CELL OR BATTERY CHARGER STRUCTURE  
     320/110 .For diverse sizes of cells, batteries, or  
                     battery packs
- 2 320/132 (0 OR, 2 XR)  
     Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
                     OR DISCHARGING  
     320/127 BATTERY OR CELL DISCHARGING  
     320/128 .With charging  
     320/130 ..Cycling (e.g., discharge/charge cycle, etc.)  
     320/132 ...With state-of-charge detection
- 2 320/134 (1 OR, 1 XR)  
     Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
                     OR DISCHARGING  
     320/127 BATTERY OR CELL DISCHARGING  
     320/128 .With charging  
     320/134 ..With battery or cell condition monitoring  
                     (e.g., for protection from overcharging, heating, etc.)
- 2 320/136 (1 OR, 1 XR)  
     Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
                     OR DISCHARGING  
     320/127 BATTERY OR CELL DISCHARGING  
     320/135 .Regulated discharging  
     320/136 ..With battery or cell condition monitoring  
                     (e.g., for protection from overcharging, heating, etc.)
- 2 320/162 (0 OR, 2 XR)  
     Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
                     OR DISCHARGING  
     320/137 BATTERY OR CELL CHARGING  
     320/162 .With detection of current or voltage amplitude
- 2 320/DIG 10 (0 OR, 2 XR)  
     Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING  
                     OR DISCHARGING  
     320/DIG 10 NONBATTERY LOAD CONTROLS CHARGING
- 2 324/426 (1 OR, 1 XR)  
     Class 324 : ELECTRICITY: MEASURING AND TESTING  
     324/425 ELECTROLYTE PROPERTIES  
     324/426 .Using a battery testing device
- 2 324/433 (0 OR, 2 XR)

- Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/425 ELECTROLYTE PROPERTIES  
324/426 .Using a battery testing device  
324/433 ..To compare battery voltage with a reference  
voltage
- 2 340/636.1 (0 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
340/540 .Specific condition  
340/635 ..Condition of electrical apparatus  
340/636.1 ...Battery
- 2 340/636.15 (0 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
340/540 .Specific condition  
340/635 ..Condition of electrical apparatus  
340/636.1 ...Battery  
340/636.15 ....By voltage
- 2 455/573 (1 OR, 1 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,  
TRANSCIVER)  
455/550.1 .Radiotelephone equipment detail  
455/572 ..Power supply  
455/573 ...Battery charging

PLUS Search Results for S/N 10628609, Searched December 14, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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